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Soybean flour lipoxygenase isozyme mutant effects on bread dough volatiles

K Addo, D Burton, MR Stuart, HR Burton, ... - JOURNAL OF FOOD ... , 1993 - interscience.wiley.com

... Defating selectively reduced **lipoxygenase 2** activity with little effect on **lipoxygenases 1** and3. Addition of full fat soy flour from mutant isolines indicated that as with soybean homogenates, **lipoxygenase 2** is mostly responsible for undesirable aroma compounds. ... **Barley**, ...

Cited by 8 - Related articles - BL Direct - All 3 versions

Soybean flour lipoxygenase isozymes effects on wheat flour dough rheological and ...

B Cumbee, DF Hildebrand, K Addo - Journal of Food Science, 1997 - interscience.wiley.com

... Copyright 1997 by the Institute of Food Technologists. KEYWORDS. soy • **lipoxygenase** • isozymes • rheology • breadmaking. ... A reduction in bread firmness occurred after 5 day storage for all three single null mutant-containing samples in the presence of 1.0% linoleic acid ... **Barley**, ...

Cited by 17 - Related articles - BL Direct - All 3 versions

Differential defense reactions in leaf tissues of barley in response to infection by ...

S Steiner-Lange, A Fischer, A Boettcher, I ... - Molecular Plant- ... , 2003 - Am Phytopath Society

... genes. 11 cor- responds to the gene encoding **barley** lipid transfer protein 2 (LTP2)(Molina and Garcia-Olmedo 1993), and 18 to the gene coding for **barley lipoxygenase**

LOX-1 (LoxA) (van Mechelen et al. 1995). Furthermore ...

Cited by 30 - Related articles - BL Direct - All 11 versions

Jasmonate-signalled plant gene expression

C Wasternack, B Parthier - Trends in Plant Science, 1997 - Elsevier

... of jasmonate, abscisic acid, specific transcripts and proteins in osmotically stressed **barley** leafsegments ... E. Bell, R. Creelman and JE Mullet, A chloroplast **lipoxygenase** is required for wound ...

GA Howe et al., An octadecanoid pathway mutant (JL5) of tomato is compromised in ...

Cited by 319 - Related articles - All 3 versions

The lipoxygenase pathway

I Feussner, C Wasternack - 2003 - Annual Reviews

... synthase; DES, divinyl ether synthase; α-DOX, α-dioxygenase; EAS, epoxy alcohol synthase;

HPL, hydroperoxide lyase; LOX, **lipoxygenase**; POX, peroxxygenase ... 88), and Medicago truncatula(JL316561), two AOSs have been found thus far in tomato (56, 105) and **barley** (80). ...

Cited by 462 - Related articles - BL Direct - All 4 versions

Low lipoxygenase 1 barley

AC Douma, A Doderer, V Cameron-Mills, B ... - US Patent App. 09/ ... , 2000 - Google Patents

... 29, 2000 Publication Classification (51) Int. Cl.7 C12N 15/82 (52) US Cl 800/320.1; 800/281

(57) ABSTRACT **Barley** plants having reduced **lipoxygenase-1** enzyme activ- ity are provided, for example, **barley** plants expressing mutant LOX-1 protein. ...

Cited by 2 - Related articles - All 7 versions

Jasmonate-induced lipid peroxidation in barley leaves initiated by distinct 13-LOX ...

A Bachmann, B Hause, H Maucher, E Garbe, ... - Biological ... , 2002 - reference-global.com

... Isolated from **barley** leaves (Hordeum vulgare cv. Salome) and char- acterized. Both of them encode 13-**lipoxygenases** with putative target sequences for chloroplast im- port. Immunogold labeling revealed preferential, if not exclusive, localization of **lipoxygenase** proteins in the ...

Cited by 24 - Related articles - BL Direct - All 2 versions

Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species ...-

► [nih.gov](#) - Full View

E Hornung, M Walther, H Kühn, I ... - Proceedings of the ... 1999 - National Acad Sciences

... These data indicate the complete conversion of a linoleate 13-lipoxygenase to a 9-lipoxygenating ...

For bacterial expression of wild-type and mutant LOX species and for site-directed mutagenesis ...

LOX-2; 9-LOX: potato tuber LOX, tobacco elicitor-induced LOX, **barley** LOX-A ...

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The allene oxide cyclase of **barley** (*Hordeum vulgare* L.)—cloning and organ- ...

H Maucher, I Stenzel, O Miersch, N Stein, M Prasad, U ... - Phytochemistry, 2004 - Elsevier

... Author Keywords: **Barley**; Jasmonates; Allene oxide synthases; Allene oxide cyclase; Stress

response; Tissue ... Ile, JA- -isoleucine conjugate; JAME, JA methyl ester; LOX, **lipoxygenase**; OPDA,

12 ... PLA1), as evidenced by a recently identified JA-deficient mutant dad1 (delayed ...

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... expression and the "oxylipin signature" in stressed **barley** leaves. Implications for ...-

► [plantphysiol.org](#)

R Kramell, O Miersch, R Atzorn, B Parthier, C ... - Plant ... 2000 - Am Soc Plant Biol

... Schlüter K, Burges J, Parthier B, Apel K (1992) The identification of leaf thionin as one of the main jasmonate-induced proteins of **barley** (*Hordeum vulgare*). Plant Mol Biol 19: 193-204 [ISI][Medline];

Bell E, Creelman RA, Mullet JE (1995) A chloroplast **lipoxygenase** is required ...

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